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Appln. No. 10/687,324 Response G Reply to Office Action of September 21, 2007

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- 1. (Cancelled)
- 2. (Cancelled)
- (Currently amended) The method of Claim 1-48 wherein at least one oil and/or
 grease barrier layer is present in step a), and the coated substrate has a Kit value
 of at least about 8 in the flat-test.
- 4. (Currently amended) The method of Claim ±48 wherein at least one water vapor barrier layer is present in step a), and the coated substrate has a water vapor transmission rate of less than about 40 g/(m²/day) (50% relative humidity, 23°C).
- 5. (Currently amended) The method of Claim 148 wherein at least one water resistance barrier layer is present in step a), and the coated substrate has a 10 minute Cobb value of less than about 12 g/m².
- 6. (Currently amended) The method of Claim <u>4.48</u> wherein at least one oxygen barrier layer is present in step a), and the coated substrate has an oxygen transmission rate of less than about 150 cm³/(m²/24h/bar) (1 atm, 23°C, 90% relative humidity).
- 7. (Currently amended) The method of Claim 448, wherein the curtain is formed with a slot die.
- (Currently amended) The method of Claim <u>4-48</u>, characterized in that the
 multilayer curtain of step a) comprises at least an additional layer providing fold
 crack resistance.
- 9. (Cancelled)

- (Currently amended) The method of Claim 448, characterized in that at least one of the layers of the multilayer curtain of step a) has a coatweight when dried of less than about 20 g/m².
- (Currently amended) The method of Claim 148, characterized in that at least one of the layers of the multilayer curtain of step a) has a coatweight when dried of less than about 10 g/m².
- 12. (Currently amended) The method of Claim 148, characterized in that the multilayer curtain of step a) has a coatweight when dried of less than about 60 g/m^2 .
- 13. (Currently amended) The method of Claim 148, characterized in that the multilayer curtain of step a) has a coatweight when dried of less than about 30 g/m².
- 14. (Currently amended) The method of Claim ± 48 , characterized in that the multilayer curtain of step a) comprises at least 3 layers.
- 15. (Currently amended) The method of Claim 148, characterized in that the multilayer curtain of step a) comprises at least 4 layers.
- 16. (Currently amended) The method of Claim 148, characterized in that the multilayer curtain of step a) comprises at least 5 layers.
- 17. (Currently amended) The method of Claim ± 48, characterized in that the multilayer curtain of step a) comprises at least 6 layers.
- 18. (Currently amended) The method of Claim $\frac{1}{48}$, characterized in that the multilayer curtain of step a) comprises at least one layer comprising at least one pigment.
- 19. (Original) The method of Claim 18, characterized in that the pigment is selected from the group consisting of clay, kaolin, calcined clay, talc, calcium carbonate, laminar nanoparticles, high aspect ratio clays, titanium dioxide, satin white,

synthetic polymer pigment, zinc oxide, barium sulfate, gypsum, silica, alumina trihydrate, mica, and diatomaceous earth.

- 20. (Currently amended) The method of Claim 148, characterized in that at least one layer imparting barrier functionality of the multilayer curtain of step a) comprises at least one or more components selected from the group consisting of ethylene acrylic acid copolymers, ethylene vinyl alcohol copolymers, polyurethanes, epoxy resins, polyesters, polyolefins, carboxylated styrene butadiene latexes, carboxylated styrene acrylate latexes, polyvinylidiene chlorides, polyvinyl chlorides, starches, proteins, styrene-acrylic copolymers, styrene maleic anhydrides, polyvinyl alcohols, polyvinyl acetates, carboxymethyl celluloses, silicones, waxes, neoprenes, polyhydroxy ethers, lacquers, polylactic acids, copolymers of polylactic acid, polymers containing fluorine atoms, copolymers of acrylonitrile, carboxylated styrene butadiene acrylonitrile copolymers, and mixtures thereof.
- 21. (Currently amended) The method of Claim 4.48, characterized in that at least one layer imparting barrier functionality of the multilayer curtain of step a) comprises at least one or more components selected from the group consisting of polyvinyl chlorides, neoprenes, polyhydroxy ethers, lacquers, polylactic acids, copolymers of polylactic acid, polymers containing fluorine atoms, copolymers of acrylonitrile, carboxylated styrene butadiene acrylonitrile copolymers, and mixtures thereof.
- 22. (Currently amended) The method of Claim <u>4.48</u>, characterized in that at least one layer of the multilayer free flowing curtain of step a) comprises at least one surfactant.
- 23. (Cancelled)
- 24. (Cancelled)
- 25. (Currently amended) The method of Claim <u>1-48</u>, characterized in that the multilayer free flowing curtain of step a) has a solids content of at least about 45 wt.%.

- 26. (Cancelled)
- 27. (Currently amended) The method of Claim <u>148</u>, characterized in that the continuous web substrate of step b) is neither precoated nor precalendered.
- 28. (Cancelled)
- 29. (Currently amended) The method of Claim <u>4-48</u>, characterized in that the continuous web substrate of step b) has a web velocity of at least about 400 m/min.
- 30. (Currently amended) The method of Claim 1-48, characterized in that the continuous web substrate of step b) has a web velocity of at least about 500 m/min.
- 31. (Currently amended) The method of Claim <u>4-48</u>, characterized in that the continuous web substrate of step b) has a grammage, or basis weight, of from about 30 to 400 g/m².
- 32. (Cancelled)
- 33. (Cancelled)
- 34. (Currently amended) The method of Claim + 48, characterized in that the multilayer curtain of step a) comprises at least an additional layer providing at least one of the following: sheet stiffness; sheet flexibility; release properties; adhesive properties; friction control; heat seal properties; and abrasion resistance properties.
- 35. (Cancelled)
- 36. (Cancelled)
- 37. (Currently amended) The method of Claim <u>4.48</u>, wherein the curtain is formed with a slide die.

- 38. (Currently amended) The method of Claim 1.48, wherein at least one layer of the curtain comprises polyethylene oxide.
- (Currently amended) The method of Claim 1 48 wherein the interface layer comprises polyethylene oxide.
- 40. (Original) The method of Claim 18, characterized in that the pigment comprises synthetic magadiite.
- 41. (Cancelled)
- 42. (Cancelled)
- 43. (Cancelled)
- 44. (Cancelled)
- 45. (Cancelled)
- 46. (Cancelled)
- 47. (Cancelled)
- 48. (Currently amended) A method of producing a coated basepaper or paperboard substrate comprising the steps of:
 - a) forming a composite, multilayer free flowing curtain, wherein at least one of the layers of the curtain has a coatweight when dried of less than about 30 g/m², the curtain has a solids content of at least about 40 wt.%, and the interface layer of the curtain has a viscosity of at least about 430 centipoise, whereby the multilayer free flowing curtain comprises at least two layers imparting at least two different barrier functionalities selected from the group consisting of oil and/or grease barrier functionality, water vapor barrier functionality, water resistance functionality, and oxygen barrier functionality, and wherein the free flowing curtain comprises an additional top layer providing printability, said top layer having a viscosity of at least about 1040 centipoise;
 - b) contacting the curtain with a continuous basepaper or paperboard web

substrate having a velocity of at least about 200 m/min., whereby, in case an oil and/or grease barrier layer is present in the multilayer curtain the coated substrate has a Kit value of at least about 5 in the flat-test, in case a water vapor barrier layer is present in the multilayer curtain the coated substrate has a water vapor transmission rate of less than about 50 g/(m²/day) (50% relative humidity, 23°C), in case a water resistance layer is present in the multilayer curtain the coated substrate has a 10 minute Cobb value of less than about 20 g/m², in case an oxygen barrier layer is present in the multilayer curtain the coated substrate has an oxygen transmission rate of less than about 200 cm³/(m²/d/bar) (1 atm, 23°C, 90% relative humidity).

49-52. (Cancelled)